

Abstract

Apparatus and methods for measuring byproducts produced by reactions between chemical and/or biochemical reactants.. The apparatus include devices for detecting
5 reactive byproducts, and multiwell sample plates for supporting samples for use with such devices. The methods include measurement strategies and data processing techniques for reducing noise in measurements of reactive processes. The apparatus and methods may be particularly suitable for extracting data from small differential measurements, and for monitoring chemical and physiological processes.